

## Water-Data Report 2008

**01461000 DELAWARE RIVER AT LUMBERVILLE, PA**

## DELAWARE RIVER BASIN

LOCATION.--Lat 40°24'27", long 75°02'16" referenced to North American Datum of 1927, Solebury Township, Bucks County, NJ, Hydrologic Unit 02040105, at pedestrian bridge at Lumberville, 1.4 mi upstream from Lockatong Creek, and at river mile 155.4.

DRAINAGE AREA.--6,598 mi<sup>2</sup>.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1976 to current year.

REMARKS.--Cooperative Network Site Descriptor: Delaware River Main Stem, NJ Department of Environmental Protection Watershed Management Area 11. The sample on Feb 20 included a volatile organic compound assessment.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 3

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

Date	Time	Turbidity white light, det ang 90+/-30 dis- charge, corrctd	UV absorb- ance, wat flt units	UV absorb- ance, wat flt units	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO <sub>3</sub> (00900)		
Nov 19...	1000	15,800	6.2	.138	.106	770	11.5	92	7.5	203	7.6	5.8	41
Feb 20...	1030	53,400	12	.077	.059	764	12.3	90	8.4	147	1.4	2.2	34
May 08...	1000	8,690	1.2	.067	.051	752	7.9	82	7.7	212	20.3	16.5	67
Aug 04...	1000	4,780	2.9	.079	.060	750	7.5	89	8.7	214	23.6	23.6	69

## 01461000 DELAWARE RIVER AT LUMBERVILLE, PA—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 3

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

Date	ANC, wat unf						Residue water, filtrd,		Residue on evap.		Residue total non- filter- able,		Ammonia + org-N, water, filtrd, mg/L as N (00623)
	Calcium water, filtrd, mg/L (00915)	Magnes- ium, water, filtrd, mg/L (00925)	Potas- sium, water, filtrd, mg/L (00935)	Sodium, water, filtrd, mg/L (00930)	CaCO <sub>3</sub> mg/L as (90410)	fixed end pt, lab, mg/L as (00940)	Chlor- ide, water, filtrd, mg/L (00940)	Fluor- ide, water, filtrd, mg/L (00950)	Silica, water, filtrd, mg/L as SiO <sub>2</sub> (00955)	Sulfate water, filtrd, mg/L (00945)	consti- tuents mg/L (70301)	180degC wat flt mg/L (70300)	(00530)
Nov 19...	10.8	3.33	1.08	7.63	27	12.5	<.12	4.2	11.3	70	87	5	.21
Feb 20...	9.26	2.65	.94	11.0	22	18.6	<.12	3.7	9.27	72	75	50	.19
May 08...	17.3	5.92	1.25	12.1	50	19.6	<.12	2.8	14.7	108	119	3	.23
Aug 04...	17.2	6.26	1.60	11.8	52	18.7	E.09	3.3	17.1	E111	131	2	.30

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 3 of 3

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

Date	Ortho- phosphate, water, filtrd, mg/L as P (00671)						Phos- phorus, water, filtrd, mg/L as P (00666)		Phos- phorus, water, unfiltrd, mg/L as P (00665)		Total carbon, suspd sediment total, mg/L (00694)	Inor- ganic carbon, suspd sediment total, mg/L (00688)	Organic carbon, suspd sediment total, mg/L (00689)	Organic carbon, water, filtrd, mg/L (00681)	Boron, water, filtrd, μg/L (01020)
	Ammonia water, filtrd, mg/L as N (00608)	Nitrate + nitrite water, filtrd, mg/L as N (00631)	Partic- ulate nitro- gen, water, susp, mg/L (49570)	Total nitro- gen, water, filtrd, mg/L (00602)	Total nitro- gen, water, unfiltrd mg/L (00600)	Phos- phorus, water, filtrd, mg/L as P (00666)	Phos- phorus, water, unfiltrd mg/L as P (00665)	Total carbon, suspd sediment total, mg/L (00694)	Inor- ganic carbon, suspd sediment total, mg/L (00688)	Organic carbon, suspd sediment total, mg/L (00689)	Organic carbon, water, filtrd, mg/L (00681)	Boron, water, filtrd, μg/L (01020)			
Nov 19...	.034	.63	.06	.85	.90	.019	.027	.043	.4	<.04	.4	3.5	9.4		
Feb 20...	.022	.64	.10	.83	.93	.014	.018	.063	.8	M	.7	2.4	7.3		
May 08...	.031	.88	.06	1.1	1.2	.031	.036	.055	.4	<.04	.4	2.3	14		
Aug 04...	.017	.96	.06	1.3	1.3	.057	.060	.075	.4	<.04	.4	3.0	21		

## 01461000 DELAWARE RIVER AT LUMBERVILLE, PA—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	1,1,1,2 -Tetra- chloro- ethane, water, unfltrd	1,1,1- Tri- chloro- ethane, water, unfltrd	1,1,2,2 -Tetra- chloro- ethane, water, unfltrd	CFC-113	1,1,2- Tri- chloro- ethane, water, unfltrd	1,1-Di- chloro- ethane, water, unfltrd	1,1-Di- chloro- ethene, water, unfltrd	1,1-Di- chloro- propene	1,2,3,4 -Tetra- methyl- benzene	1,2,3,5 -Tetra- methyl- benzene	1,2,3- Tri- chloro- benzene	1,2,3- Tri- chloro- propane	1,2,3- Tri- methyl- benzene
	μg/L (77562)	μg/L (34506)	μg/L (34516)	μg/L (77652)	μg/L (34511)	μg/L (34496)	μg/L (34501)	μg/L (77168)	μg/L (49999)	μg/L (50000)	μg/L (77613)	μg/L (77443)	μg/L (77221)
Feb 20...	<.04	<.02	<.10	<.04	<.06	<.04	<.02	<.04	<.1	<.1	<.1	<.12	<.1

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	1,2,4- Tri- chloro- benzene water, unfltrd	1,2,4- Tri- methyl- benzene water, unfltrd	Dibromo- chloro- propane	1,2-Di- bromo- ethane, water, unfltrd	1,2-Di- chloro- benzene water, unfltrd	1,2-Di- chloro- ethane, water, unfltrd	1,2-Di- chloro- propane water, unfltrd	1,3,5- Tri- methyl- benzene	1,3-Di- chloro- benzene water, unfltrd	1,3-Di- chloro- propane water, unfltrd	1,4-Di- chloro- benzene water, unfltrd	2,2-Di- chloro- propane water, unfltrd	2- Chloro- toluene water, unfltrd
	μg/L (34551)	μg/L (77222)	μg/L (82625)	μg/L (77651)	μg/L (34536)	μg/L (32103)	μg/L (34541)	μg/L (77226)	μg/L (34566)	μg/L (77173)	μg/L (34571)	μg/L (77170)	μg/L (77275)
Feb 20...	<.1	<.04	<.5	<.04	<.02	<.1	<.02	<.04	<.04	<.1	<.02	<.06	<.04

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 3 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	2- Ethyl- toluene water, unfltrd	3- Chloro- propene water, unfltrd	4- Chloro- toluene water, unfltrd	4-Iso- propyl- toluene water, unfltrd	Acetone water, unfltrd	Acrylo- nitrile water, unfltrd	Benzene water, unfltrd	Bromo- chloro- benzene water, unfltrd	Bromo- chloro- methane water, unfltrd	Bromo- di- chloro- methane water, unfltrd	Bromo- ethene, water, unfltrd	Tri- bromo- methane water, unfltrd	Bromo- methane water, unfltrd
	μg/L (77220)	μg/L (78109)	μg/L (77277)	μg/L (77356)	μg/L (81552)	μg/L (34215)	μg/L (34030)	μg/L (81555)	μg/L (77297)	μg/L (32101)	μg/L (50002)	μg/L (32104)	μg/L (34413)
Feb 20...	<.04	<.08	<.04	<.08	<.4	<.4	<.02	<.02	<.06	<.04	<.1	<.08	<.4

## 01461000 DELAWARE RIVER AT LUMBERVILLE, PA—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 4 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	Carbon di- sulfide water, unfltrd	Chloro- benzene water, unfltrd	Chloro- ethane, water, unfltrd	Chloro- methane water, unfltrd	cis- 1,2-Di- chloro- ethene, water, unfltrd	cis- 1,3-Di- chloro- propene water, unfltrd	Di- bromo- chloro- methane water, unfltrd	Di- bromo- methane water, unfltrd	Di- chloro- di- fluoro- methane water, unf unfltrd	Di- chloro- methane water, unf unfltrd	Di- ethyl ether, water, unfltrd	Diiso- propyl ether, water, unfltrd	Ethyl methac- rylate, water, unfltrd
	µg/L (77041)	µg/L (34301)	µg/L (34311)	µg/L (34418)	µg/L (77093)	µg/L (34704)	µg/L (32105)	µg/L (30217)	µg/L (34668)	µg/L (34423)	µg/L (81576)	µg/L (81577)	µg/L (73570)
Feb 20...	<.06	<.02	<.1	<.1	<.02	<.10	<.1	<.04	<.14	<.04	<.1	<.06	<.1

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 5 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	Ethyl methyl ketone, water, unfltrd	Ethyl- benzene water, unfltrd	Hexa- chloro- buta- diene, water, unfltrd	Hexa- chloro- ethane, water, unfltrd	Iodo- methane water, unfltrd	Iso- butyl ketone, water, unfltrd	Iso- propyl benzene water, unfltrd	Methyl acrylo- nitrile water, unfltrd	Methyl acryl- ate, water, unfltrd	Methyl methac- rylate, water, unfltrd	Methyl tert- pentyl ether, water, unfltrd	Methyl meta- + para- Xylene, water, unfltrd	Naphth- alene, water, unfltrd
	µg/L (81595)	µg/L (34371)	µg/L (39702)	µg/L (34396)	µg/L (77424)	µg/L (78133)	µg/L (77223)	µg/L (81593)	µg/L (49991)	µg/L (81597)	µg/L (50005)	µg/L (85795)	µg/L (34696)
Feb 20...	<1.6	<.04	<.1	<.1	<.40	<.4	<.04	<.2	<.6	<.2	<.06	<.08	<.2

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 6 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	Methyl n-butyl ketone, water, unfltrd	n-Butyl benzene water, unfltrd	Propyl- benzene water, unfltrd	o- Xylene, water, unfltrd	sec- Butyl- benzene water, unfltrd	Styrene water, unfltrd	t-Butyl ether, water, unfltrd	Methyl t-butyl ether, water, unfltrd	tert- Butyl- benzene water, unfltrd	Tetra- chloro- ethene, water, unfltrd	Tetra- chloro- methane water, unfltrd	Tetra- hydro- furan, water, unfltrd	Toluene water, unfltrd
	µg/L (77103)	µg/L (77342)	µg/L (77224)	µg/L (77135)	µg/L (77350)	µg/L (77128)	µg/L (50004)	µg/L (78032)	µg/L (77353)	µg/L (34475)	µg/L (32102)	µg/L (81607)	µg/L (34010)
Feb 20...	<.6	<.1	<.04	<.04	<.04	<.04	<.04	<.1	<.06	<.04	<.08	<1	E.03

**01461000 DELAWARE RIVER AT LUMBERVILLE, PA—Continued**

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 7 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	trans- 1,2-Di- chloro- ethene, water, unfltrd	trans- 1,3-Di- chloro- propene unfltrd	trans- 1,4-Di- chloro- butene, wat unf	Tri- chloro- ethene, water, unfltrd	chloro- fluoro- methane unfltrd	Tri- chloro- methane unfltrd	Vinyl chlor- ide, water, unfltrd
	µg/L (34546)	µg/L (34699)	µg/L (73547)	µg/L (39180)	µg/L (34488)	µg/L (32106)	µg/L (39175)
Feb 20...	<.02	<.10	<.6	<.02	<.08	<.02	<.1